

GenCore version 4.5
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OM protein - protein search, using sw model

Run on:

March 1, 2001, 16:09:16 ; Search time 299.73 Seconds
(without alignments)

24.636 Million cell updates/sec

Title: US-09-331-631a-3_COPY_186_248

Perfect score: 353

Sequence: 1 KRDPOQREYEDCRRCEQQE.....LINPQGGSGRYEGEEKOS 63

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 374700 seqs, 117207915 residues

Total number of hits satisfying chosen parameters: 374700

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : SPTREMBL_15 *

- 1: sp_archee:*
- 2: sp_bacteria:*
- 3: sp_fungi:*
- 4: sp_human:*
- 5: sp_invertebrate:*
- 6: sp_mammal:*
- 7: sp_mhc:*
- 8: sp_organelle:*
- 9: sp_phage:*
- 10: sp_plant:*
- 11: sp_rabbit:*
- 12: sp_virus:*
- 13: sp_vertebrate:*
- 14: sp_unclassified:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|-------------|
| 1 | 353 | 100.0 | 666 | 10 | Q9SPFL4 |
| 2 | 334 | 94.6 | 625 | 10 | Q9SPFL3 |
| 3 | 332 | 94.1 | 666 | 10 | Q9SPFL5 |
| 4 | 125.5 | 35.6 | 593 | 10 | Q9SEW4 |
| 5 | 118.5 | 33.6 | 525 | 10 | Q43358 |
| 6 | 103 | 29.2 | 637 | 10 | Q036678 |
| 7 | 89.5 | 25.4 | 810 | 10 | Q92WL3 |
| 8 | 85.5 | 24.2 | 1483 | 5 | Q9yD46 |
| 9 | 84 | 23.8 | 236 | 10 | Q81254 |
| 10 | 82 | 23.2 | 630 | 5 | Q9W4J3 |
| 11 | 81 | 22.9 | 242 | 10 | Q81251 |
| 12 | 81 | 22.9 | 242 | 10 | Q9SB6 |
| 13 | 81 | 22.9 | 539 | 4 | Q9NUA2 |
| 14 | 80 | 22.7 | 238 | 10 | Q81257 |
| 15 | 80 | 22.7 | 393 | 10 | Q92TP0 |
| 16 | 79 | 22.4 | 238 | 10 | Q81258 |
| 17 | 79 | 22.4 | 238 | 10 | Q9SB5 |
| 18 | 79 | 22.4 | 238 | 10 | Q9SB6 |
| 19 | 79 | 22.4 | 242 | 10 | Q9SBZ6 |
| 20 | 79 | 22.4 | 246 | 10 | Q81261 |
| 21 | 78.5 | 22.2 | 1655 | 5 | Q24754 |
| 22 | 78 | 22.1 | 240 | 10 | Q81252 |
| 23 | 78 | 22.1 | 240 | 10 | Q9SBF0 |
| 24 | 78 | 22.1 | 240 | 10 | Q9SBF9 |
| 25 | 78 | 22.1 | 240 | 10 | Q9SBF7 |
| 26 | 78 | 22.1 | 411 | 5 | P91419 |
| 27 | 78 | 22.1 | 540 | 10 | Q03866 |
| 28 | 77 | 21.8 | 238 | 10 | Q81255 |
| 29 | 76.5 | 21.7 | 296 | 10 | Q95709 |
| 30 | 76.5 | 21.7 | 1128 | 5 | Q9VZ60 |
| 31 | 75.5 | 21.4 | 239 | 10 | Q9SBF1 |
| 32 | 75.5 | 21.4 | 556 | 5 | Q76340 |
| 33 | 75.5 | 21.4 | 663 | 5 | Q9W352 |
| 34 | 75 | 21.2 | 562 | 5 | Q9U345 |
| 35 | 75 | 21.2 | 568 | 5 | Q9U344 |
| 36 | 75 | 21.2 | 2123 | 5 | Q9U957 |
| 37 | 74.5 | 21.1 | 238 | 10 | Q81249 |
| 38 | 74.5 | 21.1 | 238 | 10 | Q9SBF8 |
| 39 | 74.5 | 21.1 | 407 | 10 | Q41750 |
| 40 | 74.5 | 21.1 | 582 | 10 | Q03865 |
| 41 | 74.5 | 21.1 | 686 | 5 | Q45255 |
| 42 | 74.5 | 21.1 | 1309 | 5 | Q9VDE9 |
| 43 | 74 | 21.0 | 236 | 10 | Q81250 |
| 44 | 74 | 21.0 | 236 | 10 | Q9SBF2 |
| 45 | 74 | 21.0 | 406 | 2 | Q87306 |

ALIGNMENTS

| RESULT | 1 | Q9SPFL4 | PRELIMINARY; | PRT; | 666 AA. |
|---------|--|---|--------------------|-----------|-------------|
| ID | Q9SPFL4 | | | | |
| AC | Q9SPFL4; | | | | |
| DT | 01-MAY-2000 | (TREMBLrel. 13, Created) | | | |
| DT | 01-MAY-2000 | (TREMBLrel. 13, Last sequence update) | | | |
| DT | 01-OCT-2000 | (TREMBLrel. 15, Last annotation update) | | | |
| DE | VICILIN PRECURSOR | | | | |
| GN | AMP2 | | | | |
| OS | macadamia integrifolia (Macadamia nut). | | | | |
| OC | bukarwota; viridiplanteae; Embryophyta; Tracheophyta; Spermatophyta; | | | | |
| OX | Magnoliophyta; eudicotyledons; Proteaceae; Macadamia. | | | | |
| RN | [1] | | | | |
| RP | SEQUENCE FROM N.A. | | | | |
| RC | TISSUE=NUT KERNEL | | | | |
| RA | Marcus J.P., Goultier K.C., Green J.L., Manners J.M.; | | | | |
| RT | "A family of antimicrobial peptides is produced by processing of a 7S globulin protein in Macadamia integrifolia." | | | | |
| RL | Plant J. 0:0-0(1999). | | | | |
| DR | EMBL; AF161884; AAD54245.1; - | | | | |
| DR | HSSP; P0253; 2PBL. | | | | |
| DR | INTERPRO; IPR001113; - | | | | |
| DR | PFAM; PF00546; Seedstore_7s; 1 | | | | |
| DR | SEQUENCE 666 AA; 78243 MW; 0ECN22F8710F8A7B CRC64; | | | | |
| Query | Match | 100.0% | Score 353; | DB 10; | Length 666; |
| Best | Local Similarity | 100.0% | Pred. NO. 2.28-34; | | |
| Matches | 63; | Conservative 0; | Mismatches 0; | Indels 0; | Gaps 0; |
| Q9SPFL4 | drosophila | | | | |
| Q9SPFL4 | zea mays su | | | | |
| Q9SPFL4 | macadamia i | | | | |
| Q9SPFL4 | macadamia i | | | | |
| Q9SPFL4 | lupinus reg | | | | |
| Q9SPFL4 | theobroma c | | | | |
| Q9SPFL4 | hordeum vul | | | | |
| Q9SPFL4 | hordeum vul | | | | |
| Q9SPFL4 | cucurbita m | | | | |
| Q9SPFL4 | drosophila | | | | |
| Q9SPFL4 | zea mays su | | | | |
| Q9SPFL4 | macadamia i | | | | |
| Q9SPFL4 | lupinus reg | | | | |
| Q9SPFL4 | theobroma c | | | | |
| Q9SPFL4 | hordeum vul | | | | |
| Q9SPFL4 | cucurbita m | | | | |
| Q9SPFL4 | drosophila | | | | |
| Q9SPFL4 | zea mays su | | | | |
| Q9SPFL4 | macadamia i | | | | |
| Q9SPFL4 | lupinus reg | | | | |
| Q9SPFL4 | theobroma c | | | | |
| Q9SPFL4 | hordeum vul | | | | |
| Q9SPFL4 | cucurbita m | | | | |
| Q9SPFL4 | drosophila | | | | |
| Q9SPFL4 | zea mays su | | | | |
| Q9SPFL4 | macadamia i | | | | |
| Q9SPFL4 | lupinus reg | | | | |
| Q9SPFL4 | theobroma c | | | | |
| Q9SPFL4 | hordeum vul | | | | |
| Q9SPFL4 | cucurbita m | | | | |
| Q9SPFL4 | drosophila | | | | |
| Q9SPFL4 | zea mays su | | | | |
| Q9SPFL4 | macadamia i | | | | |
| Q9SPFL4 | lupinus reg | | | | |
| Q9SPFL4 | theobroma c | | | | |
| Q9SPFL4 | hordeum vul | | | | |
| Q9SPFL4 | cucurbita m | | | | |
| Q9SPFL4 | drosophila | | | | |
| Q9SPFL4 | zea mays su | | | | |
| Q9SPFL4 | macadamia i | | | | |
| Q9SPFL4 | lupinus reg | | | | |
| Q9SPFL4 | theobroma c | | | | |
| Q9SPFL4 | hordeum vul | | | | |
| Q9SPFL4 | cucurbita m | | | | |
| Q9SPFL4 | drosophila | | | | |
| Q9SPFL4 | zea mays su | | | | |
| Q9SPFL4 | macadamia i | | | | |
| Q9SPFL4 | lupinus reg | | | | |
| Q9SPFL4 | theobroma c | | | | |
| Q9SPFL4 | hordeum vul | | | | |
| Q9SPFL4 | cucurbita m | | | | |
| Q9SPFL4 | drosophila | | | | |
| Q9SPFL4 | zea mays su | | | | |
| Q9SPFL4 | macadamia i | | | | |
| Q9SPFL4 | lupinus reg | | | | |
| Q9SPFL4 | theobroma c | | | | |
| Q9SPFL4 | hordeum vul | | | | |
| Q9SPFL4 | cucurbita m | | | | |
| Q9SPFL4 | drosophila | | | | |
| Q9SPFL4 | zea mays su | | | | |
| Q9SPFL4 | macadamia i | | | | |
| Q9SPFL4 | lupinus reg | | | | |
| Q9SPFL4 | theobroma c | | | | |
| Q9SPFL4 | hordeum vul | | | | |
| Q9SPFL4 | cucurbita m | | | | |
| Q9SPFL4 | drosophila | | | | |
| Q9SPFL4 | zea mays su | | | | |
| Q9SPFL4 | macadamia i | | | | |
| Q9SPFL4 | lupinus reg | | | | |
| Q9SPFL4 | theobroma c | | | | |
| Q9SPFL4 | hordeum vul | | | | |
| Q9SPFL4 | cucurbita m | | | | |
| Q9SPFL4 | drosophila | | | | |
| Q9SPFL4 | zea mays su | | | | |
| Q9SPFL4 | macadamia i | | | | |
| Q9SPFL4 | lupinus reg | | | | |
| Q9SPFL4 | theobroma c | | | | |
| Q9SPFL4 | hordeum vul | | | | |
| Q9SPFL4 | cucurbita m | | | | |
| Q9SPFL4 | drosophila | | | | |
| Q9SPFL4 | zea mays su | | | | |
| Q9SPFL4 | macadamia i | | | | |
| Q9SPFL4 | lupinus reg | | | | |
| Q9SPFL4 | theobroma c | | | | |
| Q9SPFL4 | hordeum vul | | | | |
| Q9SPFL4 | cucurbita m | | | | |
| Q9SPFL4 | drosophila | | | | |
| Q9SPFL4 | zea mays su | | | | |
| Q9SPFL4 | macadamia i | | | | |
| Q9SPFL4 | lupinus reg | | | | |
| Q9SPFL4 | theobroma c | | | | |
| Q9SPFL4 | hordeum vul | | | | |
| Q9SPFL4 | cucurbita m | | | | |
| Q9SPFL4 | drosophila | | | | |
| Q9SPFL4 | zea mays su | | | | |
| Q9SPFL4 | macadamia i | | | | |
| Q9SPFL4 | lupinus reg | | | | |
| Q9SPFL4 | theobroma c | | | | |
| Q9SPFL4 | hordeum vul | | | | |
| Q9SPFL4 | cucurbita m | | | | |
| Q9SPFL4 | drosophila | | | | |
| Q9SPFL4 | zea mays su | | | | |
| Q9SPFL4 | macadamia i | | | | |
| Q9SPFL4 | lupinus reg | | | | |
| Q9SPFL4 | theobroma c | | | | |
| Q9SPFL4 | hordeum vul | | | | |
| Q9SPFL4 | cucurbita m | | | | |
| Q9SPFL4 | drosophila | | | | |
| Q9SPFL4 | zea mays su | | | | |
| Q9SPFL4 | macadamia i | | | | |
| Q9SPFL4 | lupinus reg | | | | |
| Q9SPFL4 | theobroma c | | | | |
| Q9SPFL4 | hordeum vul | | | | |
| Q9SPFL4 | cucurbita m | | | | |
| Q9SPFL4 | drosophila | | | | |
| Q9SPFL4 | zea mays su | | | | |
| Q9SPFL4 | macadamia i | | | | |
| Q9SPFL4 | lupinus reg | | | | |
| Q9SPFL4 | theobroma c | | | | |
| Q9SPFL4 | hordeum vul | | | | |
| Q9SPFL4 | cucurbita m | | | | |
| Q9SPFL4 | drosophila | | | | |
| Q9SPFL4 | zea mays su | | | | |
| Q9SPFL4 | macadamia i | | | | |
| Q9SPFL4 | lupinus reg | | | | |
| Q9SPFL4 | theobroma c | | | | |
| Q9SPFL4 | hordeum vul | | | | |
| Q9SPFL4 | cucurbita m | | | | |
| Q9SPFL4 | drosophila | | | | |
| Q9SPFL4 | zea mays su | | | | |
| Q9SPFL4 | macadamia i | | | | |
| Q9SPFL4 | lupinus reg | | | | |
| Q9SPFL4 | theobroma c | | | | |
| Q9SPFL4 | hordeum vul | | | | |
| Q9SPFL4 | cucurbita m | | | | |
| Q9SPFL4 | drosophila | | | | |
| Q9SPFL4 | zea mays su | | | | |
| Q9SPFL4 | macadamia i | | | | |
| Q9SPFL4 | lupinus reg | | | | |
| Q9SPFL4 | theobroma c | | | | |
| Q9SPFL4 | hordeum vul | | | | |
| Q9SPFL4 | cucurbita m | | | | |
| Q9SPFL4 | drosophila | | | | |
| Q9SPFL4 | zea mays su | | | | |
| Q9SPFL4 | macadamia i | | | | |
| Q9SPFL4 | lupinus reg | | | | |
| Q9SPFL4 | theobroma c | | | | |
| Q9SPFL4 | hordeum vul | | | | |
| Q9SPFL4 | cucurbita m | | | | |
| Q9SPFL4 | drosophila | | | | |
| Q9SPFL4 | zea mays su | | | | |
| Q9SPFL4 | macadamia i | | | | |
| Q9SPFL4 | lupinus reg | | | | |
| Q9SPFL4 | theobroma c | | </td | | |

| | | | | |
|---|--|--------------|---------|---------|
| ID | Q9SP3 | PRELIMINARY; | PRT; | 625 AA. |
| AC | Q9SP3; | | | |
| DT | 01-MAY-2000 (TREMBLrel. 13, last sequence update) | | | |
| DT | 01-OCT-2000 (TREMBLrel. 15, last annotation update) | | | |
| DE | VICILIN PRECURSOR (FRAGMENT). | | | |
| GN | AMP2. | | | |
| OS | Macadamia integrifolia (Macadamia nut). | | | |
| OC | Eukaryota; Viridiplantae; Embryophyta; Tracheophyta; Spermatophyta; | | | |
| OC | Magnoliophyta; eudicotyledons; Proteaceae; Macadamia. | | | |
| OX | NCBI_TAXID=6098; | | | |
| RN | [1] - SEQUENCE FROM N.A. | | | |
| RP | TISSUE=NUT KERNEL; | | | |
| RC | Marcus J.P., Goultier K.C., Green J.L., Manners J.M.; | | | |
| RA | "A family of antimicrobial peptides is produced by processing of a 7S globulin protein in Macadamia integrifolia."; | | | |
| RT | Plant J. 0:0-0(1999). | | | |
| RL | EMBL: AF161885; AAD54246.1; -. | | | |
| DR | HSSP; P02853; 2PHL. | | | |
| DR | INTERPRO; IPR001113; -. | | | |
| PFAM; PF00546; Seedstore_7s; 1. | | | | |
| NON_TER | SEQUENCE 625 AA; 73586 MW; 415508A89D370296 CRC64; | | | |
| FT | NON_TER 1 1 | | | |
| FT | SEQUENCE FROM N.A. | | | |
| RC | STRAIN=CV_SUNLAND; TISSUE=SONOMATIC EMBRYO LINE; | | | |
| RA | Teuber S.S., Jarvis K.C., Peterson W.R., Dandekar A.M., Ansari A.A.; | | | |
| RT | Identification and cloning of a cDNA encoding a vicilin-like protein, Jug r 2, from English walnut kernel (Juglans regia): a major food allergen. "; | | | |
| RT | Submitted (MAY 1998) to the EMBL/GenBank/DDBJ databases. | | | |
| RL | EMBL: AF060055; AAF18269.1; -. | | | |
| DR | HSSP; P02853; 2PHL. | | | |
| DR | INTERPRO; IPR001113; -. | | | |
| PFAM; PF00546; Seedstore_7s; 1. | | | | |
| NON_TER | SEQUENCE 593 AA; 69990 MW; 9BA127E19B18C0D8 CRC64; | | | |
| OY | 61 KOS 63 | | | |
| Db | 205 KQS 207 | | | |
| RESULT | 3 | | | |
| O9SP5 | PRELIMINARY; | PRT; | 665 AA. | |
| ID | Q9SP5 | | | |
| AC | Q9SP5; | | | |
| DT | 01-MAY-2000 (TREMBLrel. 13, created) | | | |
| DT | 01-MAY-2000 (TREMBLrel. 13, Last sequence update) | | | |
| DT | 01-OCT-2000 (TREMBLrel. 15, Last annotation update) | | | |
| DE | VICILIN PRECURSOR. | | | |
| GN | AMP2. | | | |
| OS | Macadamia integrifolia (Macadamia nut). | | | |
| OC | Eukaryota; Viridiplantae; Embryophyta; Spermatophyta; | | | |
| OC | Magnoliophyta; eudicotyledons; Proteaceae; Macadamia. | | | |
| OX | NCBI_TAXID=6098; | | | |
| [1] | SEQUENCE FROM N.A. | | | |
| RC | TISSUE=NUT KERNEL; | | | |
| RA | Marcus J.P., Goultier K.C., Green J.L., Manners J.M.; | | | |
| RT | "A family of antimicrobial peptides is produced by processing of a 7S globulin protein in Macadamia integrifolia kernels."; | | | |
| RT | Plant J. 0:0-0(1999). | | | |
| EMBL; AF161883; AAD54244.1; -. | | | | |
| DR | HSSP; P02853; 2PHL. | | | |
| DR | INTERPRO; IPR001113; -. | | | |
| PFAM; PF00546; Seedstore_7s; 1. | | | | |
| SEQUENCE 666 AA; 78217 MW; C752B884B2DF0224 CRC64; | | | | |
| Query Match 94.1%; Score 332; DB 10; Length 665; | | | | |
| Best Local Similarity 92.1%; Pred. No. 7, 3e-32; | | | | |
| Matches 58; Conservative 4; Mismatches 1; Indels 0; Gaps 0; | | | | |
| OY | 1 KRDPQOREYEDCRRCEQQEPROQQYOCORRCRREQRQHGRGDLINPORGSSGRYERGEE 60 | | | |
| Db | 186 KRDPQOREYEDCRRCEQQEPROQQHGRGDLINPORGSSGRYERGEE 245 | | | |
| Query Match 94.1%; Score 332; DB 10; Length 665; | | | | |
| Best Local Similarity 92.1%; Pred. No. 7, 3e-32; | | | | |
| Matches 58; Conservative 4; Mismatches 1; Indels 0; Gaps 0; | | | | |
| RT | "Comparison of the structure and nucleotide sequences of vicilin genes of cacao and cotton raise questions about vicilin evolution."; | | | |
| RT | Plant Mol. Biol. 18:113-117(1992). | | | |
| RL | X62625; CAA4493.1; -. | | | |
| DR | EMBL; X62625; CAA4494.1; -. | | | |
| DR | HSSP; P02853; 2PHL. | | | |

DR MENDEL; 30919; Thecc;1188;30919.
 DR INTPRO; IPR001113; -.
 DR PFAM; PF00546; Seedstore_7s; 1.
 DR PRODOM; PD081059; -; 1.
 KW Signal.
 FT SIGNAL 1 24 POTENTIAL.
 CHAIN 25 525 AA; 525 MW; VICTIN.
 SEQUENCE 525 AA; 60798 MW; 19114CD5C248905D CRC64;
 SQ [1]
 Query Match 33.6%; Score 118.5; DB 10; Length 525;
 Best Local Similarity 41.2%; Pred. No. 2e-06;
 Matches 28; Conservative 14; Mismatches 17; Indels 9; Gaps 4;
 AC 003678 PRELIMINARY; PRT; 637 AA.
 DT 01-NOV-1996 (TREMBLrel. 01, Created)
 DT 01-OCT-2000 (TREMBLrel. 15, Last sequence update)
 DT 01-OCT-2000 (TREMBLrel. 15, Last annotation update)
 DE FETAL STORAGE PROTEIN.
 GN BECI OR GBLL.
 OS Hordeum vulgare (Barley), and Triticum aestivum (wheat).
 OC Eukaryota; Viridiplantae; Embryophyta; Tracheophyta; Spermatophyta;
 OC Magnoliophyta; Liliopsida; Poales; Poaceae; Hordeum.
 OX NCBI_TaxID=4513, 4565;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=93287988; PubMed=8510647;
 RA Heck G.R., Chamberlain A.C., Ho T.H.D.;
 RT "Harley embryo globulin 1 gene, Beg1: characterization of cDNA,
 chromosome mapping and regulation of expression.";
 RL Mol. Gen. Genet. 239:209-218(1993).
 DR EMBL; M64372; AAA32936.1; -.
 DR EMBL; M81719; AAA34269.1; -.
 DR HSSP; P02853; 2PHL.
 DR MENDEL; 8553; Hoyvuu;188;8553.
 DR INTERPRO; IPR000901; -.
 DR INTERPRO; IPR001113; -.
 DR PFAM; PF00546; Seedstore_7s; 1.
 DR PROSITE; PS00847; CPSASE_2; UNKNOWN_1.
 DR PRODOM; PD081059; -; 1.
 KW Seed storage protein.
 SQ SEQUENCE 637 AA; 72252 MW; F323F4FF9947C3C CRC64;
 RP SEQUENCE FROM N.A.
 RC STRAIN=BERKELEY;
 RX MEDLINE=20196006; PubMed=10731132;
 RA Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
 RA Amanatides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galle R.F.,
 RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
 RA Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
 RA Brandt R.C., Rogers Y.-H.C., Blaize R.G., Champe M., Pfeiffer B.D.,
 RA Wan K.H., Doyle C., Baxter E.G., Heit G., Nelson C.R., Miklos G.L.G.,
 RA Abril J.F., Agayamai A., An H.-J., Andrews-Pfannkoch C., Baldwin D.,
 RA Ballew R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
 RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
 RA Borkovka D., Botchan M.R., Bouck J., Brokstein P., Brotoir P.,
 RA Burtsis K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,
 RA Cherry J.M., Cawley S., Dahlke J.M., Davenport L.B., Davies P.,
 RA de Pablo B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
 RA Dodson K., Douc L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
 RA Durbin K.J., Evangelista C.C., Ferraz C., Ferreira S., Fleischmann W.,
 RA Fosler C., Gabrialian A.E., Garg N.S., Gelbart W.M., Glasser K.,
 RA Glodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
 RESULT 7 PRELIMINARY; PRT; 810 AA.
 O9ZWI3 ID O9ZWI3
 AC O9ZWI3; [1]

RESULT 11
 ID 081251 PRELIMINARY; PRT; 242 AA.
 AC 081251;
 DT 01-NOV-1998 (TREMBLrel. 08, Created)
 DT 01-OCT-2000 (TREMBLrel. 15, Last sequence update)
 OS GLOBULIN-1 (FRAGMENT).
 Zea mays subsp. mays (maize)
 Eukaryota; Viridiplantae; Embryophyta; Tracheophyta; Spermatophyta;
 Magnoliophyta; Liliopsida; Poales; Poaceae; Zea.
 NCBI_TaxID=4578;
 OX RN [1]
 RP SEQUENCE FROM N.A.
 RA Hilton H., Gaut B.S.;
 RT "Speciation and domestication in maize and its wild relatives:
 evidence from the Globulin-1 gene.",
 Genetics 0:0-0(1998).
 EMBL; AF064214; AAC31457.1; -.
 HSSP; P50477; ICAU.
 MENDEL; 31893; Zeaau;1188;31893.
 DR INTERPRO; IPR00113; -.
 DR INTERPRO; IPR00113; -.
 PRFM; PF00546; Seedstore_7s; 1.
 PRFM; PS00867; CPSASE_2; UNKNOWN_1.
 FT SEQUENCE 242 AA; 27860 MW; 913912DE924B0ADB CRC64;
 SQ

Query Match 22.9%; Score 81; DB 10; Length 242;
 Best Local Similarity 35.9%; Pred. No. 0 03; Mismatches 18; Indels 16; Gaps 3;
 Matches 23; Conservative 7; MisMatches 18; Indels 16; Gaps 3;

QY 12 CRRCE---QEQPRQQYCQCRRCRQHQGRGGDLINPQPGGSG-----RYEEG 58
 ID 09SB6 PRELIMINARY; PRT; 242 AA.
 AC 09SB6;
 DT 01-MAY-2000 (TREMBLrel. 13, Created)
 DT 01-MAY-2000 (TREMBLrel. 13, Last sequence update)
 DT 01-OCT-2000 (TREMBLrel. 15, Last annotation update)
 DE GLOBULIN-1 (FRAGMENT).
 OS Zea mays subsp. parviflumis.
 OC Eukaryota; Viridiplantae; Embryophyta; Tracheophyta; Spermatophyta;
 OC Magnoliophyta; Liliopsida; Poales; Poaceae; Zea.
 OX NCBI_TaxID=76912;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Hilton H., Gaut B.S.;
 RT "Speciation and domestication in maize and its wild relatives:
 evidence from the Globulin-1 gene.",
 Genetics 0:0-0(1998).
 EMBL; AF064225; AAC31468.1; -.
 HSSP; P50477; ICAU.
 MENDEL; 31893; Zeaau;1188;31893.
 DR INTERPRO; IPR00113; -.
 DR INTERPRO; IPR00113; -.
 PRFM; PF00546; Seedstore_7s; 1.
 PRFM; PF00546; Seedstore_7s; 1.
 FT SEQUENCE 242 AA; 27856 MW; 8E6DB2C9E45C6BAD CRC64;
 SQ

RESULT 12
 ID 09SB6 PRELIMINARY; PRT; 242 AA.
 AC 09SB6;
 DT 01-MAY-2000 (TREMBLrel. 13, Created)
 DT 01-MAY-2000 (TREMBLrel. 13, Last sequence update)
 DT 01-OCT-2000 (TREMBLrel. 15, Last annotation update)
 DE GLOBULIN-1 (FRAGMENT).
 OS Zea mays subsp. parviflumis.
 OC Eukaryota; Viridiplantae; Embryophyta; Tracheophyta; Spermatophyta;
 OC Magnoliophyta; Liliopsida; Poales; Poaceae; Zea.
 OX NCBI_TaxID=76912;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Hilton H., Gaut B.S.;
 RT "Speciation and domestication in maize and its wild relatives:
 evidence from the Globulin-1 gene.",
 Genetics 0:0-0(1998).
 EMBL; AF064228; AAC31471.1; -.
 HSSP; P50477; ICAU.
 MENDEL; 31893; Zeaau;1188;31893.
 DR INTERPRO; IPR00113; -.
 DR INTERPRO; IPR00113; -.
 PRFM; PF00546; Seedstore_7s; 1.
 PRFM; PF00546; Seedstore_7s; 1.
 FT SEQUENCE 242 AA; 27856 MW; 8E6DB2C9E45C6BAD CRC64;
 SQ

Query Match 22.9%; Score 81; DB 10; Length 242;
 Best Local Similarity 35.9%; Pred. No. 0 03; Mismatches 18; Indels 16; Gaps 3;

RESULT 13
 ID Q9NUA2 PRELIMINARY; PRT; 539 AA.
 AC Q9NUA2;
 DT 01-OCT-2000 (TREMBLrel. 15, Created)
 DT 01-OCT-2000 (TREMBLrel. 15, Last sequence update)
 DT 01-OCT-2000 (TREMBLrel. 15, Last annotation update)
 DE DJ80804.1 (ANDROGEN RECEPTOR (DIHYDROTESTOSTERONE RECEPTOR))
 DE (FRAGMENT).
 AR GN Homo sapiens (Human).
 DR OSMammalia; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 DR OCMammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 DR NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Chapman J.;
 RT Submitted (APR-2000) to the EMBL/GenBank/DDBJ databases.
 DR EMBL; AL049564; CAB87955.1; -.
 KW Receptor.
 FT NON_TER 539 539
 SQ SEQUENCE 539 AA; 55444 MW; AB493953BB9D869P CRC64;

Query Match 22.9%; Score 81; DB 4; Length 539;
 Best Local Similarity 32.8%; Score 0. 0 064; Pred. No. 0 064; Mismatches 19; Indels 15; Gaps 0; Gaps 0;
 Matches 19; Conservative 15; MisMatches 24; Indels 0; Gaps 0;

QY 5 QOREYEDCRRCEQQBERQQYQCQRCRRCRQHQGRGGDLINPQRGSGRVEEGERKQ 62
 ID 081257 PRELIMINARY; PRT; 238 AA.
 AC 081257;
 DT 01-NOV-1998 (TREMBLrel. 08, Created)
 DT 01-NOV-1998 (TREMBLrel. 08, Last sequence update)
 DT 01-OCT-2000 (TREMBLrel. 15, Last annotation update)
 DE GLOBULIN-1 (FRAGMENT).
 OS Zea luxurians (Teosinte).
 OC Eukaryota; Viridiplantae; Embryophyta; Tracheophyta; Spermatophyta;
 OC Magnoliophyta; Liliopsida; Poales; Poaceae; Zea.
 OX NCBI_TaxID=15945;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Hilton H., Gaut B.S.;
 RT "Speciation and domestication in maize and its wild relatives:
 evidence from the Globulin-1 gene.",
 Genetics 0:0-0(1998).
 EMBL; AF064228; AAC31471.1; -.
 HSSP; P50477; ICAU.
 MENDEL; 31893; Zeaau;1188;31893.
 DR INTERPRO; IPR00113; -.
 DR INTERPRO; IPR00113; -.
 PRFM; PF00546; Seedstore_7s; 1.
 PRFM; PF00546; Seedstore_7s; 1.
 FT NON_TER 238 238
 SQ SEQUENCE 238 AA; 27233 MW; FD31AB066673BE68 CRC64;

Query Match 22.7%; Score 80; DB 10; Length 238;
 Best Local Similarity 35.5%; Pred. No. 0 039; Mismatches 18; Indels 16; Gaps 3;

| Matches | 22; | Conservative | 6; | Mismatches | 18; | Indels | 16; | Gaps | 3; |
|---------|-----|---|----|------------|-----|--------|-----|------|----|
| Y | 12 | CRRRCQQEDPQQYOCORRRC-----QQRQHGRGGDLINPQRGSG-----RYEEGBE | 60 | | | | | | |
| Y | 40 | CVRRCEDPRNWHQRSRKLCQCREERERKROBRSRHEAD-----RSGEGSSEDEREQEEE | 94 | | | | | | |
| b | 61 | KQ | 62 | | | | | | |
| b | 95 | KQ | 96 | | | | | | |

| | |
|--------|---|
| RESULT | 15 |
| Q9Z1P0 | |
| ID | 09ZTP0 |
| PRT | PRELIMINARY; |
| PRT; | 393 AA. |
| AC | 09ZTP0; |
| DT | 01-MAY-1999 (TREMBLrel. 10, Created) |
| DT | 01-MAY-1999 (TREMBLrel. 10, Last sequence update) |
| DT | 01-MAY-1999 (TREMBLrel. 10, Last annotation update) |
| DE | HYPOTHETICAL 45.3 KDA PROTEIN. |
| GN | OSE705. |
| OS | <i>Oryza sativa</i> (rice). |
| OC | Eukaryota; Virchiplantae; Embryophyta; Tracheophyta; Spermatophyta; |
| OC | Magnoliophyta; Liliopsida; Poales; Poaceae; <i>Oryza</i> . |
| OX | NCBI_TaxID=4530; |
| RN | [1] |
| RP | SEQUENCE FROM N.A. |
| RC | STRAN=LONLLO; |
| RA | Chen P.W.; Chen L.J.; |
| RL | Submitted (FEB-1998) to the EMBL/GenBank/DDBJ databases. |
| DR | EMBL; AF049348; AAD24941; -. |
| KN | Hypothetical protein. |
| SQ | SEQUENCE 393 AA; 45258 MW; DB001934BA2F9E95 CRC64; |

Search completed: March 1, 2001, 16:09:17
Job time: 1561 sec

Search completed: March 1, 2001, 16:09:17
Job time: 1561 sec